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IS 9539 (1980): Purchaser's data sheet for solid bowl scroll discharge centrifuges [MED 17: Chemical Engineering Plants and Related Equipment]

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(Reaffirmed 2006)

PURCHASER'S DATA SHEET FOR SOLID BOWL SCROLL DISCHARGE CENTRIFUGES

Chemical Engineering Sectional Committee, EDC 57; Basic Chemical Engineering Standard Subcommittee, EDC 57 : 1 [Ref : Doc : EDC 57 (3176)]

1. Scope — Covers the technical data to be supplied by a purchaser while placing an enquiry or order to a supplier for the purchase of a solid bowl scroll discharge centrifuge.

2. Purchaser's Data Sheet

PURCHASER'S DATA SHEET FOR SOLID BOWL SCROLL DISCHARGE CENTRIFUGES

Feed

1. Name of material being processed.....
2. Feed rate..... kg/h
3. Physical properties.....
   a) Temperature.....°C b) Viscosity.....cP at.....°C
   c) Specific gravity.....
4. Composition
   a) Fraction of solids in feed.....percent
   b) Fraction of liquid in feed.....percent
5. *p*H.....

Solids

6. Name.....
7. Nature of solids (crystalline/amorphous/fibrous/sticky).....
8. If fibrous, length of fibre.....
9. If crystalline, shape of crystals.....
10. Sieve designation and aperture: Percent mass between sieves:
    ....
    ....
    (If exact analysis is not available, 5 kg of the representative sample may be sent for the determination of sieve analysis).
11. Bulk density.....
12. Specific gravity.....

Mother Liquor

13. Name.....
14. Physical properties:
    a) Specific gravity..... b) Viscosity.....cP at.....°C
15. *p*H.....

Wash Liquid

16. Name.....
17. Purpose.....
18. Physical properties:
    a) Specific gravity..... b) Viscosity.....cP at.....°C
    c) Temperature.....°C.....
19. Quantity allowable per kilogram of cake.....
20. *p*H.....

(*Continued*)

Adopted 18 July 1980

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NEW DELHI 110002

PURCHASER'S DATA SHEET FOR SOLID BOWL SCROLL DISCHARGE CENTRIFUGES — *Contd*

Degree of Separation Desired

21. Amount of liquid permissible in cake.....percent

22. Amount of solids permissible in liquid.....percent

23. Whether separation of mother and wash liquors desired (yes/no) .....

Other Information

24. Temperature of centrifuging operation.....°C

25. Whether composition of feed constant (yes/no).....

26. Enclosed centrifuge required (yes/no).....

27. Flame proof centrifuge required (yes/no).....

28. Material being centrifuged at present (yes/no).....

29. If yes, particulars of machine (type, speed and material, time cycle, output, degree of separation obtained).....

30. Special consideration (such as hazards, toxicity) of tests to be run, any special method required for determining the degree of separation, cake liquid content.....

31. Preferred material of construction, if any.....

32. Electric supply:

a) Volts..... b) Phase.....

c) Hertz..... d) Direct current.....volts

33. Space available for installation of machine:

a) Length.....m b) Breadth.....m

c) Height.....m

Note — A pencil sketch showing headroom, floor space and desired space for centrifuging in relation to other equipment may be submitted along with a flow sheet of the process indicating where the separation stage or stages are required.

34. Any special requirements.....

EXPLANATORY NOTE

The information given by a purchaser according to this data sheet will enable a manufacturer or supplier to assess the exact requirements of the purchaser and recommend to him the most suitable type of equipment.

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